PENT COOPERATION TREATY

PCT

REC'L 0 3 OCT 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 2201472-WO0	FOR FURTHER ACTION	ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/41		
International application No.	International filing date (day/more	ıth/year)	Priority date (day/month/year)	
PCT/IL03/00963	13 November 2003 (13.11.2003)		14 November 2002 (14.11.2002)	
International Patent Classification (IPC)	or national classification and IPC			
IPC(7): A61N 1/04 and US Cl.: 607/57				
Applicant				
BRAINSGATE LTD				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a total of 3 sheets, including this cover sheet.				
This report is also acc	companied by ANNEXES, i.e.,	sheets of the	description, claims and/or drawings	
before this Authority	(see Rule 70.16 and Section 60	report and/or and/or and/or and	sheets containing rectifications made nistrative Instructions under the PCT).	
These annexes consist of a	total of sheets.			
3. This report contains indica	tions relating to the following i	tems:	·	
I Basis of the repo	ort			
II Priority				
III Non-establishme	III Non-establishment of report with regard to novelty, inventive step and industrial applicability			
IV Lack of unity of	invention			
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			y, inventive step or industrial ment	
VI Certain documents cited				
VII Certain defects i	in the international application			
VIII Certain observat	vations on the international application			
		•		
Date of submission of the demand	Date	of completion	of this report	
15 June 2004 (15.06.2004)	19 Ser	otember 2004 (1	9.09.2004)	
Name and mailing address of the IPEA/U	JS Autho	rized officer /	1/1/1	
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	Audio		Thuley for	
P.O. Box 1450	Kriste	en Mullen	/ / '	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Teleph	none No. 703-6	05-1185	

Form PCT/IPEA/409 (cover sheet)(July 1998)



International application No.	
PCT/IL03/009	

I.	Basi	s of the report
1.	With	regard to the elements of the international application:*
	\boxtimes	the international application as originally filed.
	\boxtimes	the description:
		pages 1-38 as originally filed
		pages NONE , filed with the demand
		pages NONE, filed with the letter of
	\bowtie	the claims:
		pages 39-50 , as originally filed
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand
		pages NONE, filed with the letter of
	\boxtimes	the drawings:
		pages 1-9 , as originally filed
		pages NONE , filed with the demand
		pages NONE, filed with the letter of
		the sequence listing part of the description:
		pages NONE , as originally filed
		pages NONE, filed with the demand pages NONE, filed with the letter of
2.	With	
	ıaugu	regard to the language, all the elements marked above were available or furnished to this Authority in the tage in which the international application was filed, unless otherwise indicated under this item.
•	Thes	e elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination(under Rules
		55.2 and/or 55.3).
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
	micii	national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
	\square	furnished subsequently to this Authority in computer readable form.
İ		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
1	_	international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing
		has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/ fig NONE
۱ ۶		
م ۔		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
,,,,,	CPUI	rement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in It as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). Explacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
		The second contractions must be rejerred to under tiem 1 and unitexed to ints report.

International	cation No.	
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PCT/IL03/00		
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V.	. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, citations and explanations supporting such statement		inventive step or industrial applicability;		
1.	STATEMENT			,	
	Novelty (N)	Claims	1-104	YES	3
		Claims	NONE	NO	
	Inventive Step (IS)	Claims	1-104	YES	:
		Claims	NONE	МО	•
	Industrial Applicability (IA)	Claims	1-104	YES	2
		Claims		NO.	,

2. CITATIONS AND EXPLANATIONS

Claims 1-52 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest an apparatus comprising a stimulator adapted to stimulate at least one site of the subject, the site selected from the list consisting of: an otic ganglion, an afferent fiber going into the otic ganglion, an efferent fiber going out of the otic ganglion, a sphenopalatine ganglion (SPG) of the subject, an anterior ethmoidal nerve of the subject, a posterior ethmoidal nerve of the subject, a communicating branch between an anterior ethmoidal nerve and a retro-orbital branch of an SPG of the subject, a greater palatine nerve of the subject, a lesser palatine nerve of the subject, a sphenopalatine nerve of the subject, a communicating branch between a maxillary nerve and an SPG of the subject, a nasopalatine nerve of the subject, a posterior nasal nerve of the subject, an infraorbital nerve of the subject, an otic ganglion of the subject, an afferent fiber going into the otic ganglion of the subject, an efferent fiber going out of the otic ganglion of the subject, a vidian nerve of the subject, a greater superficial petrosal nerve of the subject, and a lesser deep petrosal nerve of the subject.

Claims 53-104 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method comprising stimulating at least one site of the subject, the site selected from the list consisting of: an otic ganglion, an afferent fiber going into the otic ganglion, an efferent fiber going out of the otic ganglion, a sphenopalatine ganglion (SPG) of the subject, an anterior ethmoidal nerve of the subject, a posterior ethmoidal nerve of the subject, a communicating branch between an anterior ethmoidal nerve and a retro-orbital branch of an SPG of the subject, a communicating branch between a posterior ethmoidal nerve and a retro-orbital branch of an SPG of the subject, a greater palatine nerve of the subject, a lesser palatine nerve of the subject, a sphenopalatine nerve of the subject, a communicating branch between a maxillary nerve and an SPG of the subject, a nasopalatine nerve of the subject, a posterior nasal nerve of the subject, an infraorbital nerve of the subject, an otic ganglion of the subject, an afferent fiber going into the otic ganglion of the subject, an efferent fiber going out of the otic ganglion of the subject, a vidian nerve of the subject, a greater superficial petrosal nerve of the subject, and a lesser deep petrosal nerve of the subject.

Claims 1-104 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.